

PATENT APPLICATION
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of

Docket No: Q82601

Yasuhiro MIYAMOTO, et al.

Allowed: June 27, 2007

Appln. No.: 10/501,787

Group Art Unit: 2834

Confirmation No.: 6376

Examiner: Burton S. MULLINS

Filed: July 19, 2004

For: LINEAR MOTOR ARMATURE AND LINEAR MOTOR

INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. §§ 1.97 and 1.98

MAIL STOP ISSUE FEE

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56, Applicant hereby notifies the U.S. Patent and Trademark Office of the documents which are listed on the attached PTO/SB/08 A & B (modified) form and/or listed herein and which the Examiner may deem material to patentability of the claims of the above-identified application.

One copy of each of the listed documents is submitted herewith, except for the following: U.S. patents and/or U.S. patent publications; and co-pending non-provisional U.S. applications filed after June 30, 2003.

The present Information Disclosure Statement is being filed after either a Final Office Action, Notice of Allowance, or an action that otherwise closes prosecution in the application (whichever is earlier), but before payment of the Issue Fee, and therefore Applicant is

authorizing the USPTO to charge the fee of \$180.00 under 37 C.F.R. § 1.17(p) to the Deposit Account No. 19-4880, and a Statement Under 37 C.F.R. § 1.97(e) is enclosed.

In compliance with the concise explanation requirement under 37 C.F.R. § 1.98(a)(3) for foreign language documents, an English language Abstract is provided. In addition, the Applicant encloses herewith a copy of a Communication from a foreign patent office in a counterpart application citing such documents. Translation of relevant portions of the Communication are provided as follows:

The document JP 2002-009681 discloses the points as follows.

(1) "In the armature of a linear motor,
the armature is divided into a plurality of armature blocks to be arranged in the direction of a thrust force,

the block core of each armature block is provided with an armature coil of which teeth is concentrically wound,

the armature blocks are separated from each other at intervals corresponding to an electrical angle of an integral multiple determined by dividing the magnetic pole pitch by the number of the armature blocks, and

armature coil of each armature block are wound with being shifted to each other by an electrical angle corresponding to the interval between the armature blocks."

([Claim 1])

(2) "The armature blocks are separated from each other at intervals of $2/3$ the magnetic pole pitch, .. and each phase coil of each armature block is connected in three-phase equilibrium wire connection."

([Claim 2])

(3) "In this case, the interval dimension is $2/3$ the magnetic pole pitch P_m ."

(Paragraph [0006])

(4) "The block core 28 constituting the armature block includes the yoke 28a which is provided with the engaging projection 28b on one side, and the engaging portion 28c on the opposite side which engages with the engaging projection 28b, the yokes 28a being sequentially and fittingly connected." (Paragraph [0018])

Therefore, in view of (1) to (4), the document JP 2002-009681 discloses the invention as follows.

An armature of a linear motor including:

An armature divided into a plurality of armature blocks, each armature block constituted by a plurality of block cores sequentially and fittingly connected, wherein when number of the armature windings is three and a magnetic pole pitch of a magnetic field is taken as P_m ,

the armature blocks are separated from each other at intervals corresponding to an electrical angle of an integral multiple determined by dividing a magnetic pole pitch by the number of the armature blocks, or at intervals of $2/3$ the magnetic pole pitch.

The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicant does not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application.

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U.S. Appln. No.: 10/501,787

Attorney Docket No.: Q82601

The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account.

Respectfully submitted,

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